

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/12302

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - B31B 1/00 (2007.10) USPC - 493/394 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC: 493/394		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 73/761,778,801,653,655,656; 493/394 (text search, see terms below)		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(PGPB,USPT,EPAB,JPAB); Google Search Terms: probe, reader, ultrasonic, optical, image, transducer, load, stress, strain, bar code		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2004/0065154 A1 (KIBBLEWHITE) 08 April 2004 (08.04.2004), para [0022], [0026], [0044], [0053]-[0057], [0061], Fig 1	1-5, 9, 13, 16-19, 35-37, 39-43, 45-47, 50-52
Y	US 5,018,988 A (KIBBLEWHITE) 28 May 1991 (28.05.1991), col 3, ln 50-56, col 5, ln 64 to col 6, ln 51, col 7, ln 18-34, col 11, ln 3-44	6-8, 10-12, 14, 15, 20-34, 38, 44, 48-49, 53
Y	US 5,018,988 A (KIBBLEWHITE) 28 May 1991 (28.05.1991), col 3, ln 50-56, col 5, ln 64 to col 6, ln 51, col 7, ln 18-34, col 11, ln 3-44	6-8, 10-12, 14, 15, 38, 44 and 53
Y	US 6,340,868 B1 (LYS et al.) 22 January 2002 (22.01.2002), col 2, ln 39-59, col 10, ln 60 to col 11, ln 49, col 12, ln 52-67, col 28, ln 26 to col 29, ln 4, col 67, ln 26-42, col 75, ln 43-60, Fig 69-74	20-34, 48, 49
A	US 2006/0004290 A1 (SMITH et al.) 05 January 2006 (05.01.2006), entire document	1-53
A	US 5,211,061 A (GOODWIN) 18 May 1993 (18.05.1993), entire document	1-53
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 03 December 2007 (03.12.2007)		Date of mailing of the international search report 22 FEB 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774